In the Claims

Please replace the pending claims with the following:

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- 1. (Cancelled)
- 2. (Cancelled)
- 3. (Cancelled)
- 4. (Cancelled)
- 5. (Cancelled)
- 6. (Cancelled)
- 7. (Cancelled)
- 8. (Cancelled)
- 9. (Cancelled)
- 10. (Cancelled)
- 11. (Cancelled)
- 12. (Cancelled)
- 13. (Cancelled)
- 14. (Cancelled)
- 15. (Cancelled)
- 16. (Cancelled)

17. (Amended) An apparatus for use in parallel reaction of materials, comprising:

a base having a plurality of reaction wells formed in an upper surface of the base and extending partially therethrough, each of said reaction wells having a closed lower end defined by the base and an open upper end for receiving components for the reaction;

a cover configured for sealing engagement with the base to form a housing enclosing said plurality of reaction wells and defining a common pressure chamber in communication with said plurality of reaction wells;

an inlet port in communication with said pressure chamber for supplying pressurized fluid to said chamber to pressurize said plurality of reaction wells; and

a flow restriction device positioned adjacent to said open ends of the reaction wells and comprising flow passageways formed therein to provide a primary flow passage between the reaction wells and said pressure chamber while reducing cross-talk between the reaction wells;

wherein the housing is configured to sustain a pressure substantially above atmospheric pressure.

- 18. (Original) The apparatus of claim 17 wherein the flow restriction device comprises a plurality of vent holes formed therein and aligned with said plurality of reaction wells.
- 19. (Amended) An apparatus for use in parallel reaction of materials, comprising:

a base having a plurality of reaction wells formed in an upper surface of the base and extending partially therethrough, each of said reaction wells having a closed lower end defined by the base and an open upper end for receiving components for the reaction; a cover configured for sealing engagement with the base to form a housing enclosing said plurality of reaction wells and defining a common pressure chamber in communication with said plurality of reaction wells; and

a flow restriction device positioned adjacent to said open ends of the reaction wells to provide communication between the reaction wells and said pressure chamber while reducing cross-talk between the reaction wells, the flow restriction device comprising a plurality of flow passageways formed therein and aligned with said plurality of reaction wells, each of said flow passageways having a diameter substantially smaller than a diameter of the aligned reaction well; and

an inlet port in communication with said pressure chamber for supplying pressurized fluid to said chamber to pressurize said plurality of reaction wells;

wherein the housing is configured to sustain a pressure substantially above atmospheric pressure.

- 20. (Original) The apparatus of claim 17 wherein the flow restriction device comprises a plurality of check valves aligned with the reaction wells and configured to allow flow into the reaction wells and restrict flow from the reaction wells into said chamber.
- 21. (Original) The apparatus of claim 17 wherein the flow restriction device comprises a rigid member.
- 22. (Original) The apparatus of claim 17 wherein the flow restriction device comprises an elastomeric sheet.
- 23. (Original) The apparatus of claim 17 wherein the flow restriction device comprises a porous sheet.

- 24. (Original) The apparatus of claim 17 wherein the flow restriction device is removably attached to the base member with fastening means.
- 25. (Original) The apparatus of claim 17 further comprising a plurality of vials inserted into said plurality of reaction wells for receiving reaction components.
- 26. (Original) The apparatus of claim 25 further comprising a plurality of springs disposed at the bottom of the reaction wells for biasing the vials upward against the flow restriction device.
 - 27. (Cancelled)
 - 28. (Cancelled)
 - 29. (Cancelled)
 - 30. (Cancelled)
 - 31. (Cancelled)
 - 32. (Cancelled)
 - 33. (Cancelled)
 - 34. (Cancelled)
 - 35. (Cancelled)
 - 36. (Cancelled)
 - 37. (Cancelled)
 - 38. (Withdrawn from consideration by Examiner)

- 39. (Withdrawn from consideration by Examiner)
- 40. (Withdrawn from consideration by Examiner)
- 41. (Withdrawn from consideration by Examiner)
- 42. (Amended) An apparatus for use in parallel reaction of materials, comprising:

a base having a plurality of reaction wells, each of said reaction wells having a closed lower end and an open upper end for receiving components for the reaction;

a cover configured for sealing engagement with the base to form a housing enclosing said plurality of reaction wells and defining a common pressure chamber in communication with said plurality of reaction wells;

a flow restriction device positioned adjacent to said open ends of the reaction wells and comprising flow passageways formed therein to provide a primary flow passage between the reaction wells and said pressure chamber while reducing cross-talk between the reaction wells; and

an inlet port in communication with said pressure chamber for supplying pressurized fluid to said chamber to pressurize said plurality of reaction wells.

- 43. (Original) The apparatus of claim 42 wherein the flow restriction device comprises a rigid member.
- 44. (Original) The apparatus of claim 42 wherein the flow restriction device comprises an elastomeric sheet.
- 45. (Original) The apparatus of claim 42 wherein the flow restriction device comprises a porous sheet.

- 46. (Original) The apparatus of claim 42 wherein the flow restriction device comprises a plurality of vent holes formed therein and aligned with said plurality of reaction wells.
- 47. (Amended) An apparatus for use in parallel reaction of materials, comprising:

a base having a plurality of reaction wells, each of said reaction wells having a closed lower end and an open upper end for receiving components for the reaction;

a cover configured for sealing engagement with the base to form a housing enclosing said plurality of reaction wells and defining a common pressure chamber in communication with said plurality of reaction wells;

a flow restriction device positioned adjacent to said open ends of the reaction wells communication between the reaction wells and said pressure chamber while reducing cross-talk between the reaction wells; the flow restriction device comprising a plurality of flow passageways formed therein and aligned with said plurality of reaction wells, each of said flow passageways having a diameter substantially smaller than a diameter of the aligned reaction well; and

an inlet port in communication with said pressure chamber for supplying pressurized fluid to said chamber to pressurize said plurality of reaction wells.

- 48. (Original) The apparatus of claim 42 wherein the flow restriction device comprises a plurality of check valves aligned with the reaction wells and configured to allow flow into the reaction wells and restrict flow from the reaction wells into said chamber.
- 49. (Original) The apparatus of claim 42 further comprising a plurality of vials inserted into said plurality of reaction wells for receiving reaction components.



- 50. (Original) The apparatus of claim 49 further comprising a plurality of springs disposed at the bottom of the reaction wells for biasing the vials upward against the flow restriction device.
- 51. (Original) The apparatus of claim 42 wherein said pressurized fluid is pressurized substantially above atmospheric pressure.
 - 52. (Cancelled)
 - 53. (Cancelled)